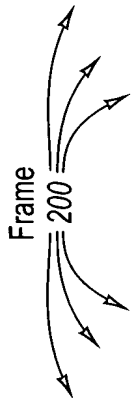


Fig. 1



Preamble	Frame Start	201	202	Operation	203	Device ID	204	ExtID	205	Basic Address	206	TA1	207	Bus Hold	208	Data	209	CRC	210	TA2	211	ACK	212	Error	213	Frame End	214
----------	-------------	-----	-----	-----------	-----	-----------	-----	-------	-----	---------------	-----	-----	-----	----------	-----	------	-----	-----	-----	-----	-----	-----	-----	-------	-----	-----------	-----

Fig. 2

(TA)												(SLAV-STUS)			
				BH		Z1		Z2		BT2 Z3		SP			
				BT1	DATA_H	DATA_L		CRC		ACK		E			
PRE	H	SR	OP	XTND	ADDR	Z0	DEV								
7	6	5	5	5	5	4	4	4	3	3	3	2	2		
4	0	9	8	7	6	4	3	2	1	4	3	2	1		
-----															
RD: H...	1	00	101	VVV	XXXXXXX	0	AAAAAAA	Z	B	DDDDDDDD	0	CCCCCCCC	0		
moe:.....	*	**	***	***	*****	.	*****	.	*****	.	*****	.	*****		
soe:.....	.	..	...	...	.....	.	*****	*	*****	*	*****	*	*****		
-----															
RD: H...															
-----															
WR: H...	1	00	001	VVV	XXXXXXX	0	AAAAAAA	0	1	DDDDDDDD	0	CCCCCCCC	Z		
moe:.....	*	**	***	***	*****	*	*****	*	*	*****	*	*****	*		
soe:.....	.	..	...	...	.....	.	*****	.	*****	.	*****	.	*****		
-----															
WR: H...															
-----															
crc_gen:	.	..	***	***	*****	.	*****	*	*	*****	*	*****	*		
crc_chk:	.	..	***	***	*****	.	*****	*	*	*****	*	*****	*		
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															
RD: H...															
-----															
WR: H...															
-----															



	H	OP	ADDR	BH	Z1	Z2
PRE	SR	DEV	BT1 DATA_H	DATA_L	SP	
5	3 3 33	3 3 3 2	2 2 2 1	1 1 1	0 0 00	
3	9 8 76	5 3 2 0 9	2 1 0 9	2 1 0	3 2 10	
RD:	H...H	1 00 110 VV	AAAAAAA Z B	DDDDDDD 0	DDDDDDD 0 1Z	←301C
moe:.....	* **	**	*****	.	. . . . .	. *
Soe:.....	. . . . .	. . . . .	. * *****	*	*****	* *
WR:	H...H	1 00 010 VV	AAAAAAA 0 1	DDDDDDD 0	DDDDDDD 0 1Z	←304C
moe:.....	* **	**	*****	*	*****	*
Soe:.....	. . . . .	. . . . .	. . . . .	.	. . . . .	. .
	--	--	--	--	--	--
	^	(restart if input not all 1's)				
	+---+					

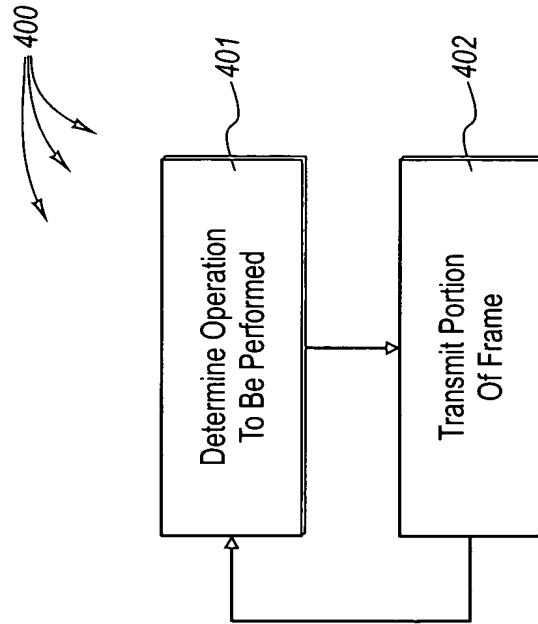


Fig. 4

Title: TWO-WIRE INTERFACE HAVING DYNAMICALLY ADJUSTABLE  
DATA FIELDS DEPENDING ON OPERATION CODE

Inventors: Gerald L. Dybsetter and Jayne C. Hahin

Docket No.: 15436.334.1

6 / 7

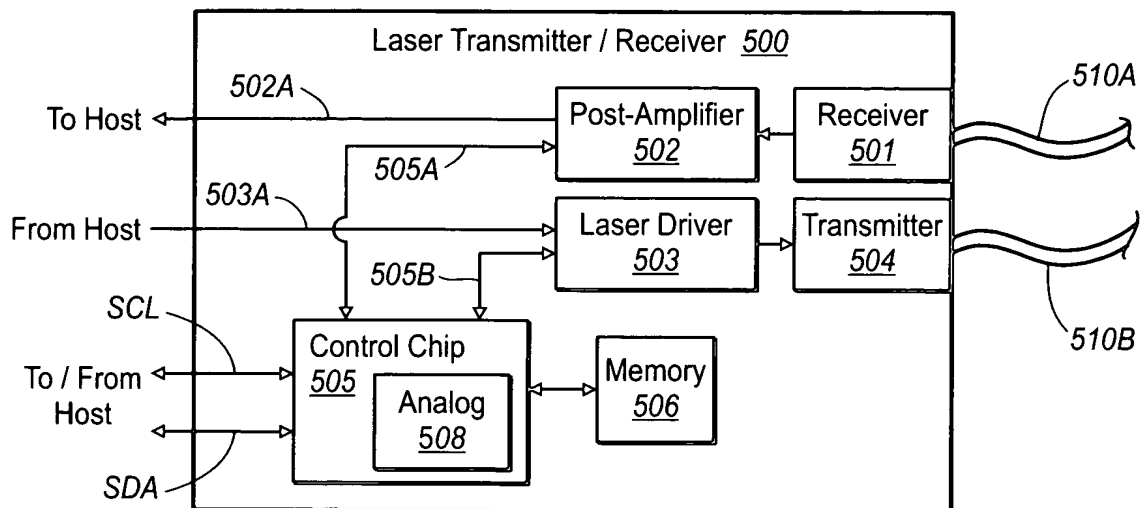


Fig. 5

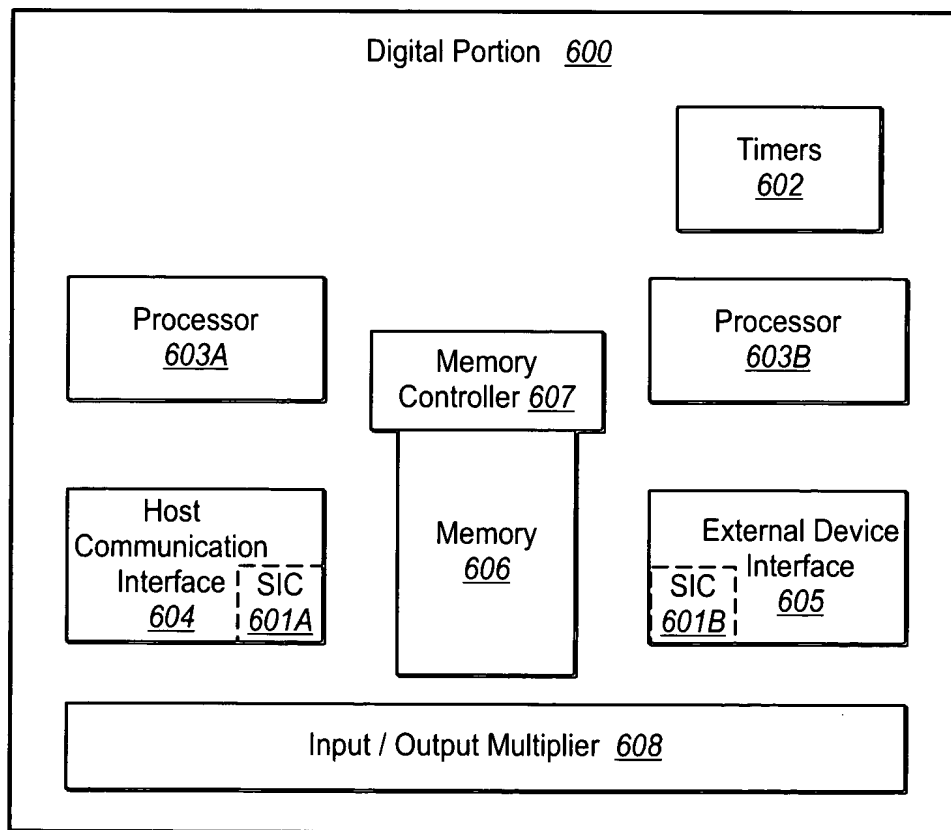


Fig. 6

Fig. 7  
(Prior Art)